

Title (en)  
WAVELENGTH ADJUSTING METHOD AND RELATED DEVICES

Title (de)  
WELLENLÄNGENEINSTELLUNGSVERFAHREN UND ZUGEHÖRIGE VORRICHTUNGEN

Title (fr)  
PROCÉDÉ D'AJUSTEMENT DE LONGUEUR D'ONDE ET DISPOSITIFS ASSOCIÉS

Publication  
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Application  
**EP 20861668 A 20200827**

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• CN 2020111855 W 20200827

Abstract (en)  
[origin: EP4020842A1] Embodiments of the present invention disclose a wavelength tuning method and a related device, where the method includes: A remote optical module receives a wavelength control signal, where the wavelength control signal is used to indicate a target wavelength tuned by the remote optical module, and the wavelength control signal is loaded into a first optical service signal in a pilot tone manner; and the remote optical module tunes an operating wavelength of the remote optical module based on the wavelength control signal. By using the method shown in the embodiments, the operating wavelength of the remote optical module included in a remote device can be monitored by using the remote device, so that monitoring efficiency and accuracy are improved. In addition, a low-cost, high-reliability, and maintainable wavelength division transmission system can be implemented.

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Citation (search report)  
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• [X1] HONDA KAZUAKI ET AL: "Wavelength Adjustment of Upstream Signal using AMCC with Power Monitoring for WDM-PON in 5G Mobile Era", 2018 OPTICAL FIBER COMMUNICATIONS CONFERENCE AND EXPOSITION (OFC), OSA, 11 March 2018 (2018-03-11), pages 1 - 3, XP033357572  
• [A] NAKAGAWA GOJI ET AL: "Development of Evaluation Platform of AMCC Superimposition on CPRI Signal Transmission for Mobile Fronthaul Network", 2017 EUROPEAN CONFERENCE ON OPTICAL COMMUNICATION (ECOC), IEEE, 17 September 2017 (2017-09-17), pages 1 - 3, XP033336509, DOI: 10.1109/ECOC.2017.8346183  
• [X1] ZHU JIANNAN ET AL: "First demonstration of a WDM-PON system using full C-band tunable SFP+ transceiver modules [invited]", JOURNAL OF OPTICAL COMMUNICATIONS AND NETWORKING, IEEE, USA, vol. 7, no. 1, 1 January 2015 (2015-01-01), XP011571345, ISSN: 1943-0620, [retrieved on 20150126], DOI: 10.1364/JOCN.7.000A28  
• See also references of WO 2021043070A1

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